

Title (en)  
Thermo-electrical plants.

Title (de)  
Thermoelektrische Anlagen.

Title (fr)  
Installations thermo-électriques.

Publication  
**EP 0055175 A2 19820630 (FR)**

Application  
**EP 81402014 A 19811216**

Priority  
• FR 8027374 A 19801223  
• FR 8122636 A 19811203

Abstract (en)  
[origin: US4420940A] A thermo-electric installation comprising a first network of hot tubes extending between two ends disposed in parallel relation and in which flows a hot fluid, a second network of cold tubes, extending between two ends, disposed in parallel relation and in a plane parallel to the plane of the hot tubes, and in which flows a cold fluid, thermo-elements mounted between said hot tubes and said cold tubes, at least two mechanical connection structures, called hot structures, connecting the hot tubes together, respectively towards their two ends, these two hot structures being independent of the cold tubes, at least two mechanical connection structures, called cold structures, connecting together the cold tubes, respectively towards their two ends, these two cold structures being independent of the hot tubes, and fixing devices, for firmly connecting together the hot structures and the cold structures, situated at the same end.

Abstract (fr)  
L'installation thermo-électrique comporte deux réseaux de tubes chauds (4) et de tubes froids (5), des thermo-éléments (1) étant montés entre les susdits tubes chauds (4) et froids (5). Deux structures mécaniques chaudes (6, 7) relient les tubes chauds (4) respectivement vers leurs deux extrémités (4a, 4b), ces deux structures chaudes (6, 7) étant indépendantes des tubes froids (5). Deux structures mécaniques froides (9, 10) relient les tubes froids (5) respectivement vers leurs deux extrémités (5a, 5b), ces deux structures froides (9, 10) étant indépendantes des tubes chauds (4). Des dispositifs de fixation (13) sont prévus pour rendre solidaires entre elles les structures chaudes (6, 7) et froides (9, 10) situées à une même extrémité (4a, 5a) ou (4b, 5b).

IPC 1-7  
**F25B 21/02**; **H01L 35/30**

IPC 8 full level  
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CPC (source: EP US)  
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Cited by  
FR2932924A1; EP0119502A1; FR2542855A1; WO2009156361A1; US8993785B2; US9206116B2; WO9957768A1; US9061973B2; US9227934B2; US9403766B2

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